

Title (en)  
METHOD AND DEVICE FOR PROCESSING VIDEO

Title (de)  
VERFAHREN UND VORRICHTUNG ZUR VERARBEITUNG VON VIDEOS

Title (fr)  
PROCÉDÉ ET DISPOSITIF POUR TRAITER UNE VIDÉO

Publication  
**EP 3824620 A4 20211201 (EN)**

Application  
**EP 18934519 A 20181025**

Priority  
KR 2018012748 W 20181025

Abstract (en)  
[origin: WO2020085541A1] The method of the present invention for processing a video comprises: acquiring a first and a second omnidirectional videos having a stereoscopic parallax in a first direction which is a corresponding column direction when the first and the second omnidirectional videos are unfolded by longitude and latitude; and, determining one or two third omnidirectional videos according to the first and the second omnidirectional videos, the second and the third omnidirectional videos having a stereoscopic parallax in a second direction, wherein, if one third omnidirectional video is determined, the second and the third omnidirectional videos have a stereoscopic parallax in the second direction; if two third omnidirectional videos are determined, the two third omnidirectional videos have a stereoscopic parallax in the second direction; and, the second direction is a corresponding row direction when the first and the second omnidirectional videos are unfolded by longitude and latitude.

IPC 8 full level  
**H04N 13/111** (2018.01); **G06N 3/04** (2006.01); **G06T 5/00** (2006.01); **G06T 7/38** (2017.01); **H04N 13/00** (2018.01); **H04N 13/128** (2018.01); **H04N 13/156** (2018.01); **H04N 13/204** (2018.01); **H04N 13/239** (2018.01); **H04N 13/243** (2018.01); **H04N 13/246** (2018.01); **H04N 13/282** (2018.01); **H04N 13/296** (2018.01)

CPC (source: EP US)  
**G06F 18/21** (2023.01 - US); **G06N 3/045** (2023.01 - EP); **G06N 3/047** (2023.01 - EP); **G06N 3/08** (2013.01 - EP); **G06T 5/60** (2024.01 - EP); **G06T 5/77** (2024.01 - EP); **G06T 7/38** (2017.01 - EP); **G06T 7/593** (2017.01 - US); **G06V 20/40** (2022.01 - US); **G06V 30/274** (2022.01 - US); **H04N 13/111** (2018.05 - EP); **H04N 13/128** (2018.05 - EP US); **H04N 13/204** (2018.05 - EP US); **H04N 13/239** (2018.05 - EP); **H04N 13/243** (2018.05 - EP US); **H04N 13/246** (2018.05 - EP US); **H04N 13/282** (2018.05 - EP); **H04N 13/296** (2018.05 - EP); **G06T 2207/10021** (2013.01 - EP US); **G06T 2207/20081** (2013.01 - EP); **G06T 2207/20084** (2013.01 - EP US); **H04N 2013/0081** (2013.01 - EP US)

Citation (search report)

- [Y] US 2013258066 A1 20131003 - ASANO MOTOHIRO [JP]
- [Y] US 2013128121 A1 20130523 - AGARWALA ASEEM O [US], et al
- [Y] WO 2018174535 A1 20180927 - SAMSUNG ELECTRONICS CO LTD [KR]
- [Y] US 2017150236 A1 20170525 - NEWMAN DAVID A [US], et al
- [Y] US 2018293713 A1 20181011 - VOGELS THIJS [CH], et al
- [Y] US 2018234669 A1 20180816 - CHEN ZHILI [US], et al
- [Y] SHIGANG LI: "Binocular Spherical Stereo", IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS, IEEE, PISCATAWAY, NJ, USA, vol. 9, no. 4, 1 December 2008 (2008-12-01), pages 589 - 600, XP011347139, ISSN: 1524-9050, DOI: 10.1109/TITS.2008.2006736
- [Y] KIM HANSUNG ET AL: "Room Layout Estimation with Object and Material Attributes Information Using a Spherical Camera", 2016 FOURTH INTERNATIONAL CONFERENCE ON 3D VISION (3DV), IEEE, 25 October 2016 (2016-10-25), pages 519 - 527, XP033027660, DOI: 10.1109/3DV.2016.83
- [A] PILZER ANDREA ET AL: "Unsupervised Adversarial Depth Estimation Using Cycled Generative Networks", 2018 INTERNATIONAL CONFERENCE ON 3D VISION (3DV), IEEE, 5 September 2018 (2018-09-05), pages 587 - 595, XP033420097, DOI: 10.1109/3DV.2018.00073
- [Y] MOSTAFA KAMALI ET AL: "Stabilizing Omnidirectional Videos Using 3D Structure and Spherical Image Warping", 13 June 2011 (2011-06-13), XP055361709, Retrieved from the Internet <URL:https://www.inf.ethz.ch/personal/jebazin/papers/MVA\_2011.pdf> [retrieved on 20170404], DOI: 10.1.1.389.5759
- See also references of WO 2020085541A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**WO 2020085541 A1 20200430**; EP 3824620 A1 20210526; EP 3824620 A4 20211201; US 11223815 B2 20220111; US 2021227192 A1 20210722

DOCDB simple family (application)  
**KR 2018012748 W 20181025**; EP 18934519 A 20181025; US 201816652601 A 20181025